

Bellringer

1 Which is the scientific name for an organism?

A Rosa rugosa

B Rosa

C rugosa

D Rugosa rosa

E both a and d

Apr 4-8:54 AM

2 Which of these describes systematics?

A studies evolutionary relationships

B includes taxonomy and classification

C includes phylogenetic trees

D utilizes fossils, morphological, and molecular data

E all of the above

Apr 4-8:55 AM

3 The classification category below the family is...

- A class
- B species
- C phylum
- ☒ D genus
- E order

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4 Which of these are domains? Choose more than one answer if correct.

- ☒ A Bacteria
- ☒ B Archaea
- ☒ C Eukarya
- D Animals
- E Plants

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5 Which of these are eukaryotes? Choose more than one answer if correct.

- A Bacteria
- B Archaea
- ☒ C Eukarya
- ☒ D Animals
- ☒ E Plants

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6 Which of these characteristics is shared by bacteria and Archaea? Choose more than one answer if correct.

- ☒ A presence of a nucleus
- ☒ B absence of a nucleus
- ☒ C presence of ribosomes
- ☒ D absence of membrane-bounded organelles
- ☒ E presence of a cell wall

Apr 4-9:00 AM

7 Which is mismatched?

- ☒ A Fungi- prokaryotic single cells
- ☐ B Plants- nucleated
- ☐ C Plants- Flowers and mosses
- ☐ D Animals- arthropods and humans
- ☐ E Protists - unicellular eukaryotes

Apr 4-9:01 AM

8 Which is mismatched?

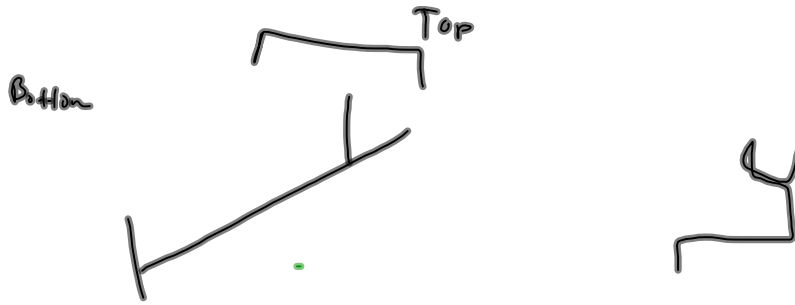
- ☐ A Fungi- heterotrophic by absorption
- ☐ B Plants- usually photosynthetic
- ☒ C Animals- rarely ingestive
- ☐ D Protists- various modes of nutrition
- ☐ E both c and d

→ plant like
animal like

Apr 4-9:02 AM

9 Concerning a phylogenetic tree, which is incorrect?

- ☒ A Dates of divergence are always given
- ☐ B Common ancestors give rise to descendants
- ☐ C The more recently evolved are always at the top of the tree
- ☐ D Ancestors have primitive characters
- ☐ E All of the above are correct




Apr 4-9:04 AM

10 Which pair is mismatched?

- ☐ A homology- character similarity due to a common ancestor
- ☐ B molecular clock- DNA strands match
- ☐ C fossil record- bones and teeth
- ☒ D homology- functions always differ
- ☐ E molecular data- molecular clock


Apr 4-9:06 AM

11 One benefit of a fossil record is ...

- A that hard parts are more likely to fossilize
 - ☒ B fossils can be dated
 - C its completeness
 - D fossils congregate in one place
 - E all of these are correct
- 

Apr 4-9:07 AM

12 The discovery of common ancestors in the fossil records, the presence of homologies, and nucleic acid similarities help scientists decide...

- A how to classify organisms
 - B the proper cladogram
 - C how to construct phylogenetic trees
 - D how evolution occurred
 - ☒ E all of these are correct
- 

Apr 4-9:09 AM

13 Molecular clock data are based on...

- A common adaptations among animals
- ☒ B DNA dissimilarities in living species
- C DNA fingerprinting of fossils
- D finding homologies among plants
- E all of the above



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